AmerenUE Exhibit No. NGS-1

UNION ELECTRIC COMPANY

DOING BUSINESS AS AMEREN-UE

ILLINOIS COMMERCE COMMISSION DOCKET NO. _____

DIRECT TESTIMONY

OF

NEIL G. SLATEN

ST. LOUIS, MISSOURI AUGUST 30, 2002

2		UNION ELECTRIC COMPANY
3		DOING BUSINESS AS AMEREN-UE
4		ILLINOIS COMMERCE COMMISSION
5		DOCKET NO
6		DIRECT TESTIMONY OF NEAL G. SLATEN
7	Q.	Please state your name and business address.
8	A.	My name is Neal G. Slaten. My business address is 1901 Chouteau Avenue,
9		St. Louis, Missouri 63103.
10	Q.	By whom and in what capacity are you employed?
11	A.	I am employed by AmerenUE as a Supervising Engineer in the Strategic Programs
12		Department.
13	Q.	Please describe your education.
14	A.	I earned a Bachelor of Science degree in Aerospace Engineering from St. Louis
15		University in 1970 and a Master of Science degree in Nuclear Engineering from the
16		University of Missouri in 1972. I am a registered Professional Engineer in the States
17		of Missouri and Illinois.
18	Q.	Please describe your qualifications.
19	A.	I have been employed by AmerenUE since 1972 in a wide range of engineering
20		disciplines related to the AmerenUE Callaway Plant including radioactive waste
21		disposal, health physics, environmental impact analysis, nuclear safety analysis and
22		probabilistic risk assessment. Currently, my principal duties include directing the
23		Strategic Programs Group, which provides corporate expertise to the Callaway Plant
24		in probabilistic risk assessment, chemistry, health physics, radwaste and

environmental matters. In addition I am responsible for developing and implementing a long-range legal, technical and political strategy for high-level and low-level radioactive waste disposal and interfacing with various industry and regulatory bodies. I have served on various industry committees in the area of radioactive waste disposal over the years and currently serve on the Nuclear Energy Institute Low-Level Waste Working Group and the Electric Power Research Institute Nuclear Power Council as Chairman of the Technical Support Council Program Committee that is responsible for research in the areas of High-Level and Low-Level Radioactive Waste, Chemistry & Radiation Protection.

Q. What is the purpose of your testimony?

- A. My testimony will address the decommissioning cost estimate used as the basis for the annual expense and quarterly contribution to AmerenUE's Tax Qualified Nuclear Decommissioning Trust Fund.
- 38 Q. Are you sponsoring any schedules?
- 39 A. Yes, I am sponsoring Schedules 1 and 2.
- 40 Q. Please discuss the decommissioning cost estimate process.
- A. Every year AmerenUE performs a generic decommissioning cost calculation for its

 Callaway Plant. NRC regulations (10 CFR 50.75) require nuclear power plant

 licensees to use a simple three-part formula to update decommissioning cost estimates

 for their nuclear power plants. NRC has established a "generic" methodology for

 determining minimum amounts upon which financial assurance for decommissioning

 must be based. Licensees are allowed to perform site specific decommissioning cost

 studies and may use them to provide funding for higher financial assurance amounts;

	but, as a minimum, financial assurance funding is required to be based on the amount		
	derived from the 10 CFR 50.75 "generic" methodology.		
Q.	Is this generic cost estimate the sole basis for the contributions to the		
	decommissioning trust find?		
A.	No, not necessarily. In addition to the generic cost estimate, AmerenUE performs a		
	site-specific decommissioning cost estimate for the Callaway Plant at regular		
	intervals. This site-specific cost estimate is a more detailed analysis than the NRC		
	required generic calculation. AmerenUE uses the higher of the generic and site-		
	specific estimates as a basis for Ameren's funding plan.		
Q.	What is the generic NRC minimum cost estimate for Callaway Plant in 2002 and		
	how was it derived?		
A.	The NRC minimum for the Callaway Plant ranges from \$321,540,000 to		
	\$554,318,000 in January 2002 dollars depending on assumptions used for radioactive		
	waste disposal practices. Attached is Schedule 1 consisting of a one page document		
	titled "Callaway Plant Generic Decommissioning Cost Estimate – NRC Minimum		
	Certification Requirements (10 CFR 50.75) – January 2002" which details the		
	methodology used to determine the generic cost estimate.		
Q.	How does the generic cost estimate compare with the site-specific cost estimate?		
A.	The latest site specific decommissioning cost estimate is \$515,339,000 in 2002		
	dollars. A contractor (TLG Services) under AmerenUE direction prepared this		
	estimate. The attached Schedule 2 contains the site-specific estimate including		
	discussion of the method utilized to derive the estimate. The current site specific		
	A. Q. Q.		

70	estimate is higher than the most recent generic estimate range minimum, and is the
71	governing value for decommissioning fund planning.

Q. Please summarize the changes to the decommissioning cost estimates for the Callaway Plant.

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The last NRC generic estimate provided in testimony to the Illinois Commerce Commission in 1999 dollars was \$488,066,712. Because that value was higher than the site specific cost estimate at the time, the NRC generic cost estimate was the governing value for decommissioning fund planning. Both the NRC generic cost estimate and the site specific cost estimate were derived assuming all decommissioning radioactive waste was disposed at the Barnwell waste disposal site in South Carolina. It should be noted that the Illinois Commerce Commission staff reduced the estimate to \$437,763,000 in 1999 dollars to adjust for a lower waste disposal cost. AmerenUE did not challenge the staff adjusted estimate. NRC (NUREG-1307) allows the use of two different waste burial escalation factors, one for direct burial at available LLW disposal sites and one for the use of waste vendors for the disposition of LLW. However, with the volatility in waste disposal, the longer away the decommissioning effort is the more uncertain the waste disposal costs are and the more expensive they are likely to be. In our previous filing, we believed use of the largest escalation factor allowed by NRC was the most prudent course to assure the availability of sufficient funds when Callaway Plant decommissions. In the context of NUREG-1307, this meant assuming direct burial at Barnwell.

However, AmerenUE currently uses the most cost-effective methods of LLW processing and disposal using waste processing vendors. Since the Commission will have the opportunity to reconsider this issue and the level of participation of waste vendors in future decommissioning rider filings, we have elected to use a blended adjustment factor in our current site specific estimate which reflects costs for the Barnwell disposal site in South Carolina, the Envirocare disposal site in Utah and the use of waste processing vendors as appropriate. This, we believe, is consistent with the ICC staff position in our previous filing. Should this situation change, the cost estimate can be updated in future filings.

Increases in labor rates and other increases reflecting our contractor experience with actual decommissioning projects since our last submittal offset the resulting reduction in waste disposal costs.

Q. Does this conclude your testimony?

Yes, it does.

SCHEDULE 1

Callaway Plant Generic Decommissioning Cost Estimate NRC Minimum Certification Requirements (10CFR50.75)

January 2002

Definitions:

Estimated Decommissioning Cost in 2002 dollars =	1986\$Cost * (A*Lx +1	B*Ex + C*Bx)
1986\$Cost = estimated decommissioning costs in 1986 dollars =		\$105,000,000
$A = fraction \ of the \ 1986 \ \$ \ Cost \ attributable \ to \ labor, \ materials \ and \ set \\ B = fraction \ of the \ 1986 \ \$ \ Cost \ attributable \ to \ energy \ and \ transportat \\ C = fraction \ of the \ 1986 \ \$ \ Cost \ attributable \ to \ waste \ burial =$		0.65 0.13 0.22
Lx = labor, materials, services cost adjustment, January 1986 to Janu $Ex =$ energy and waste transportation cost adjustment, January 1986	1.788 0.991	
Bx = radioactive waste burial/disposition and surcharge cost adjustm January 1986 to January 2002 (Using latest NUREG 1307 of		Using Waste Vendors 8.052

Year 2002 Calculation

·	Using Direct	Using Waste
	<u>Buria</u> l	<u>Vendors</u>
Total 2002 cost adjustment =	5.279	3.062

2002 Cost \$554,318,000 \$321,540,000

Note: Minor variations due to rounding